

Date: Fri, 22 Jul 94 04:30:17 PDT
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>
Errors-To: Ham-Ant-Errors@UCSD.Edu
Reply-To: Ham-Ant@UCSD.Edu
Precedence: Bulk
Subject: Ham-Ant Digest V94 #233
To: Ham-Ant

Ham-Ant Digest Fri, 22 Jul 94 Volume 94 : Issue 233

Today's Topics:

 AM Stations....
 Antenna forsale
 Antenna Patterns??
 Attic Dipole Help
 DDRR Patterns and Performance
 Feedline next to 220V run??
 Mag mount help
 need info on Ham radios
PSI newsfeeds - Was: rec.radio.amatuer.antenna still alive?
 ROHN tower info, please (3 msgs)
 RV HF Loop
 Trees as antennas, Effects of trees

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 21 Jul 1994 12:04:10 -0400
From: newstf01.cr1.aol.com!search01.news.aol.com!not-for-mail@uunet.uu.net
Subject: AM Stations....
To: ham-ant@ucsd.edu

In article <2qm0uu\$q2g@mother.usf.edu>, shadrick@luna.ec.usf.edu. (Scott
Shadrick (PSY)) writes:

Greetings..

1st answer, yes. You could probably hear stations as far away as Hawaii

and the Far East with proper conditions.

2nd:

WWOW is licensed to Contemporary Media, Conneaut, Ohio. My 1994
Broadcasters Yearbook lists them on 1360Khz at 500 watts, daytime only.

Cheers,

KG7FU @ aol.com

Date: 21 Jul 1994 17:32:21 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!agate!etch-eshop.Berkeley.EDU!
ron@network.ucsd.edu
Subject: Antenna forsale
To: ham-ant@ucsd.edu

Antenna's West TNT no tune on 40 20 10m. Other bands with a tuner.
87ft long off center fed windom.

I can't easily get it into a good position where I live, so I'll
hopefully change to a vertical.

Sells new for \$80.00 plus shipping, aprox 6months old.
\$60.00 including shipping.

Ron Viegelahn, KE6GLZ

ron@etcheshop.Berkeley.EDU

Date: 21 Jul 1994 06:10:21 GMT
From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!zip.eecs.umich.edu!
yeshua.marcam.com!insosf1.infonet.net!usenet@network.ucsd.edu
Subject: Antenna Patterns??
To: ham-ant@ucsd.edu

Is there any useful antenna pattern programs for the Mac?

DARKON@ins.infonet.net

Date: Wed, 20 Jul 1994 19:26:41 GMT

From: boulder!news.coop.net!news.den.mmc.com!news2!pogo.den.mmc.com!
boutell@uunet.uu.net
Subject: Attic Dipole Help
To: ham-ant@ucsd.edu

Hello all.

I'm planning on mounting a Shory All-Bander dipole into my attic this weekend. The total length of the antenna is about 70 feet. It of course will be used with a tuner. The problem is that I don't have a 70 foot continuous length in the attic. The house is 40 feet long and if I install the antenna in an inverted-vee configuration I can probably get about 50 feet end to end. Another problem is that the long run in the attic runs east-west(better north-south coverage) and I would like the opposite or even a bit of omnidirectional.

One passage I read talked about bending the ends 90 deg in the horizontal plane both in the same direction like:

```

|         |
|         |  looking down
-----
||
||
|| feed line
||
```

Or I thought about doing it in the vertical plane and bend the ends up:

```

|  /\  |
|  /\  |
|  /\  |  looking sideways
|  /\  |
|  /\  |
||
||
|| feedline
```

Or

I would appreciate any suggestions for best performance, especially east and west without having a long north-south path to run the dipole. I am hoping to get the antenna up this weekend. Thanks in advance.
73, Russ WDOFTF

Date: Wed, 20 Jul 1994 21:27:06 GMT

From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!newsserver.jvnc.net!yale.edu!
noc.near.net!ns.draper.com!news.draper.com!jwy1294a.draper.com!
jyoungberg@network.ucsd.edu
Subject: DDDR Patterns and Performance
To: ham-ant@ucsd.edu

There was interest in years past (QST and/or 73 articles may even have been more than a decade ago) in an antenna called a "directional discontinuity ring radiator." Overly simplified, a DDDR is a quarter-wave vertical, bent into a circle and then bent over so that the plane of the antenna is parallel to the ground. The radiation pattern is that of a vertical.

Question: what would be the effect on pattern and performance if the DDDR element were concentric with a (smaller diameter) conducting cylinder? Can the available antenna modelling programs handle configurations like this?

Skip, K1NKR

Date: 21 Jul 94 13:14:12 CDT
From: equalizer!timbuk.cray.com!walter.cray.com!bexar.cray.com!
user@network.ucsd.edu
Subject: Feedline next to 220V run??
To: ham-ant@ucsd.edu

I'd like to run some RG8 coax from a 2 meter jpole in my attic ..antenna restrictions :-(.. to my toyroom...the garage. My other hobby (woodworking) is requiring a 220V line coming from the attic to the same 'toyroom' for my tablesaw. Its a 2 story house, so I need to feed both lines through a bedroom closet that is located above the garage. Can I run both feeds thru the same conduit??

Note...the radio & saw would never be used at the same time, no current thru the 220V run while I'm operating. I've never been able to chew gum & pat my head let alone ragchew and make sawdust concurrently ;-)

Thanks for your advice!

- Tom Baltz KC5HEG
trb@cray.com

Date: 20 Jul 1994 14:19:16 -0700
From: ihnp4.ucsd.edu!usc!nic-nac.CSU.net!ctp.org!not-for-mail@network.ucsd.edu
Subject: Mag mount help

To: ham-ant@ucsd.edu

I have had a Comet b-20 for a few years. Last weekend the mag base mg-sr developed an open in the center copper of the coax. My attempting to fix the base has pretty much destroyed it. I am looking for suggestions on a new mag mount for my B-20. I believe it is a UHF (PL209?) base. Comet says that everything they have is solid core coax. I think I will have better luck with a braided core (more flexible) although I don't know if there will be higher losses with braided.

Thanks
Steve
sadams@ctp.org

Date: 20 Jul 1994 23:06:24 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!spool.mu.edu!torn!thunder!bb1051-ct3.lakeheadu.ca!dgfowlie@network.ucsd.edu
Subject: need info on Ham radios
To: ham-ant@ucsd.edu

I might want to get into ham radioing in a little while. If this is the proper newsgroup, would someone please e-mail me the FAQ? If not, just let me know where else to look.
Thanks muchly.

daryl

Date: 20 Jul 94 13:11:11 EDT
From: psinntp!main03!landisj@uunet.uu.net
Subject: PSI newsfeeds - Was: rec.radio.amatuer.antenna still alive?
To: ham-ant@ucsd.edu

In article <1994Jul15.120359.112@drager.com>, I wrote:
> I've not seen anything in the rec.radio.amateur.antenna group lately. Has it
> been renamed, or do I need to look into a feed problem?

OK - Thanks for the replies. My feed, PSI, informed me that they "upgraded" their server s/w and some newsgroups got dropped. 000PS. It's been reinstated. If you use PSI, you may want to check your feed.
Oh, and yes, the spelling was ok except in my subject line :)

Joe - AA3GN

--

Joe Landis - System & Network Mgr. - North American Drager Co. Telford, PA

landisj@drager.com | uupsi5!main03!landisj | AA3GN@WB3JOE.#EPA.PA.USA
Opinions are mine only, and do not reflect those of my employer.
...Munging Until No Good...

Date: Wed, 20 Jul 1994 22:31:54 GMT
From: ihnp4.ucsd.edu!usc!nic-nac.CSU.net!charnel.ecst.csuchico.edu!csusac!
csus.edu!netcom.com!slay@network.ucsd.edu
Subject: ROHN tower info, please
To: ham-ant@ucsd.edu

I am looking for any or all of the following general and specific information:

- 1) Street address, telephone, fax, and/or email for ROHN Towers.
- 2) Specific info on the HD 3-5-54G tower.
Is it a crank-up, fold-over, guyed or freestanding tower?
Is a bracket mount to the house required?
I presume it is 54ft, but do not know for sure.
- 3) Any idea if Rohn still makes this beast?
- 4) Is it likely that Rohn makes an updated version which may use the same concrete mounting?
- 5) Is it "unusual" that the triangle formation of the mounting bracket/bolts for Rohn towers are NOT equilateral triangles?
The concrete base I am looking at has a base width of the tower appearing to be approx 21" although the distance to the apex of the triangle base seems to be approx 24" or so. So, perhaps it was a fold-over mounting bracket? hmmm

My reason for asking is that I am about to purchase a home built by a Ham (now Silent Key), and if possible, I'd like to obtain the same sort of tower or at least one that can use the same concrete base.

Thanks and 73
Sandy WA6BXH
slay@netcom.com WA6BXH@N0ARY.#NOCAL.CA.USA

Date: 21 Jul 94 17:20:46 GMT
From: news.delphi.com!BIX.com!hamilton@uunet.uu.net
Subject: ROHN tower info, please

To: ham-ant@ucsd.edu

slay@netcom.com (Sandy Lynch) writes:

>I am looking for any or all of the following general and specific
>information:

>1) Street address, telephone, fax, and/or email for ROHN Towers.

Rohn
P.O. Box 2000
Peoria, IL 61656
Ph 309-697-4400
FAX 309-697-5612

>2) Specific info on the HD 3-5-54G tower.

> Is it a crank-up, fold-over, guyed or freestanding tower?
> Is a bracket mount to the house required?
> I presume it is 54ft, but do not know for sure.

>3) Any idea if Rohn still makes this beast?

Rohn towers are all basically guyed designs with an optional fold-over. You buy as many sections as you want for the height you're looking for. You control the wind load capability by the choice of how heavy-duty you go in the sections you use. The 54G does not mean it's a 54' tower, it just means that they used Number 54G tower sections. I don't see those in the current catalog, but for comparison, 55G is the current top-of-the-line consumer tower.

I'd direct your other questions directly to Rohn.

Regards,

Doug Hamilton KD1UJ hamilton@bix.com Ph 508-358-5715
Hamilton Laboratories, 13 Old Farm Road, Wayland, MA 01778-3117, USA

Date: 21 Jul 94 15:05:36 GMT

From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!vixen.cso.uiuc.edu!aries!
hawley@network.ucsd.edu

Subject: ROHN tower info, please

To: ham-ant@ucsd.edu

slay@netcom.com (Sandy Lynch) writes:

>I am looking for any or all of the following general and specific
>information:

>1) Street address, telephone, fax, and/or email for ROHN Towers.

Rohn, P.O. Box 2000, Peoria, Illinois 61656

Chuck Hawley, KE9UW in Urbana, Illinois
hawley@aries.scs.uiuc.edu
School of Chemical Sciences, Electronic Services
University of Illinois, Urbana-Champaign

Date: Thu, 21 Jul 1994 10:41:21
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!europa.eng.gtefsd.com!
newsxfer.itd.umich.edu!jobone!fiesta.srl.ford.com!eccdb1.pms.ford.com!
eve542.eve.ford.com!spierson@network.ucsd.edu
Subject: RV HF Loop
To: ham-ant@ucsd.edu

How would a horizontal HF loop work on the roof of my motor home ? It has a steel cage and a fiberglass outer shell. The roof area is about 22'x8' and is 11' high. Although I have a rear hitch, a vertical would be parallal with and only 4' away from the steel cage at the rear. Also has anyone had any luck using Elnec to model Hf antenna's on motor homes ?

Date: 21 Jul 1994 19:47:03 GMT
From: news.tek.com!tekgp4.cse.tek.com!royle@uunet.uu.net
Subject: Trees as antennas, Effects of trees
To: ham-ant@ucsd.edu

Years ago, I had two identical 40m verticals in my back yard. I wanted to measure their performance as a phased array, so arranged to have a friend (Wes Hayward, W7ZOI) make some signal measurements at his house, about a mile away. To begin, I excited each element in turn, with the other disconnected at the base. (With a quarter-wavelength element, this effectively removes it from the system.) Wes measured *10 dB* difference between them! This was a good measurement with a step attenuator, not some guess from an S-meter. I verified that both elements had the same feedpoint impedance and were otherwise identical. The only difference was that between the weak element and Wes' house was a small stand of fir trees. The trees were roughly a quarter wavelength high and were about 30-50' from the

antenna. I arranged to be able to switch between the elements from the shack and verified a very substantial attenuation of signals from the direction of the trees, in the one element. (This turned out to be W6, so the attenuation was welcome!) Otherwise, they responded equally. Later, I moved the weak element so the path to Wes' house just skirted the edge of the trees. The attenuation dropped to 4 dB.

I haven't seen any good studies or measurements of this effect, and haven't had time to repeat the experiments now that the trees have grown. I don't know:

- How important the tree height is
- Whether the effect changes with season
- How frequency-dependent the effect is
- What difference there is between types of trees

I *do* know that the effect is real, and definitely can be major. I'd like to encourage anyone who's interested to do some experiments and share the results. Just *please* don't give results in "S-units". (My rig's S-units are 1.4-2.3 dB each depending on where you are on the scale. What are yours?) A step attenuator, another local station, antennas, trees, and time are all that are required. Here's your chance to make a real pioneering contribution to amateur radio. Any takers?

73,
Roy Lewallen, W7EL
roy.lewallen@tek.com

End of Ham-Ant Digest V94 #233
